



HALCO PRODUCTS COMPANY

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HALCO
PRODUCT
INFORMATION

500.3000

LAMINAR DOWNFLOW WORK STATIONS

Features

- Modular Construction
- Flexible Design
- Economical
- Optional Reverse Flow For Hazmat Use
- Exhaust or Variable Exhaust
- Air Vac or Gas Outlets
- Stainless Work Surface
- Integral Lighting & Controls
- Optional Power & Outlets
- Optional Base Cabinets
- Optional All Plastic Design
- Heated Work Surfaces



Applications

- Laboratories
- Hospitals
- Pharmacies
- Electronics
- Military
- Invitro Labs
- Cleanrooms
- Parts Assembly
- Repair & Service Centers
- Aviation & Aerospace

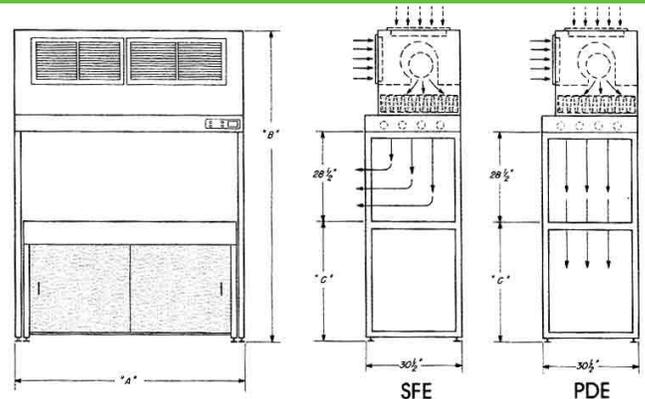
The ultimate in vertical systems

This series represents a timely second generation advancement in the state of the art. Equipment you will be happy to use with pride. This advanced design drawn from over 15 years of experience —the “CAT SERIES — is years ahead as it features:

Expandability, movability, floor space savings, vibration arestance, noise abatement and low maintenance, superb workmanship, excellent delivery and realistic prices. When it comes to clean air systems, HALCO excels since we can perform all phases in building for you exactly what you need and when you need it,

Single pass system

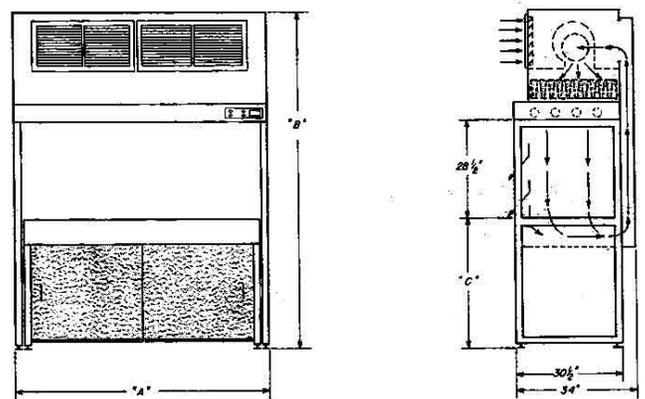
Ambient air enters prefilter area Sc and is forced through HEPA filter, affording downward laminar flow throughout the critical work area and exhausted out the front of the unit. If necessary the work deck could be perforated to allow air to pass directly through and exhaust below the work deck.



Model No.	A	B	C	Model No.	A	B	C
CAT 4302 SFE	50"	96"	36"	CAT 4302 PDE	50"	96"	36"
CAT 5302 SFE	62"	96"	36"	CAT 5302 PDE	62"	96"	36"
CAT 6302 SFE	74"	96"	36"	CAT 6302 PDE	74"	96"	36"
CAT 8302 SFE	99"	96"	36"	CAT 8302 PDE	99"	96"	36"

Recirculating system

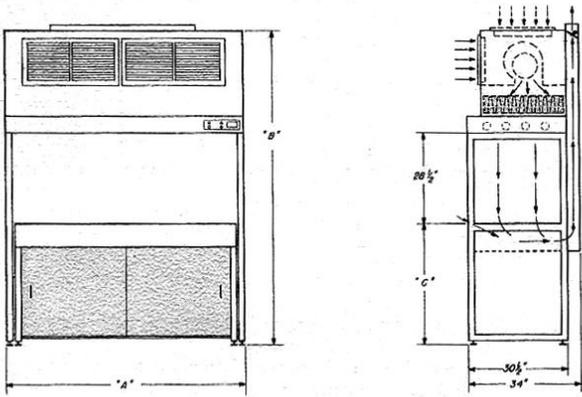
Operation is similar to single pass unit, except, rather than air dumped out the front of the unit, it is recirculated through a perforated work deck back mounted return air grill. This return air is refiltered and returned at 90 FPM. This unit is 100% recirculating.



Model No.	A	B	C
CAT 4302 PR	50"	96"	36"
CAT 5302 PR	62"	96"	36"
CAT 6302 PR	74"	96"	36"
CAT 8302 PR	99"	96"	36"

Clean fume hood exhaust

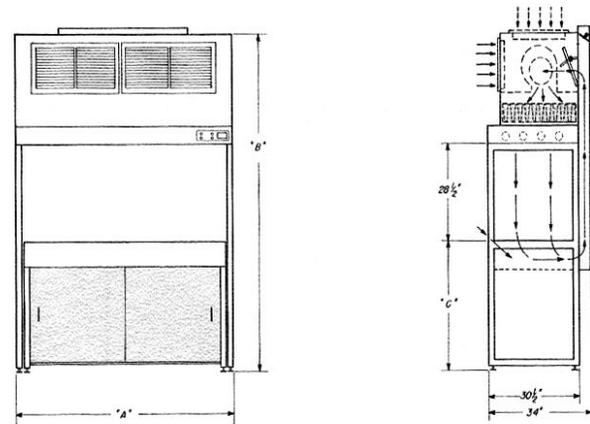
(Perforated work deck) Ambient comes in at the top, pressurizes the blower plenum and clean air is forced through the HEPA filter (99.97% effective) The air travels in a laminar flow down through perforated work surface into the plenum area below the work surface and exhausts through the rear plenum to the outside or your central exhaust system.



Model No.	A	B	C
CAT 4302 PE	50"	96"	36"
CAT 5302 PE	62"	96"	36"
CAT 6302 PE	74"	96"	36"
CAT 8302 PE	99"	96"	36"

Variable exhaust

The variable exhaust unit affords the flexibility of exhausting a portion of the returned air (from 0% to 100%). This saves ambient air conditioning and extends HEPA filter life. Designed where light fume situation exists.



Model No.	A	B	C
CAT 4302 PVE	50"	96"	36"
CAT 5302 PVE	62"	96"	36"
CAT 6302 PVE	74"	96"	36"
CAT 8302 PVE	99"	96"	36"

SPECIFICATIONS:

- BLOWERS:** Large capacity, slow speed, direct drive type, vibration mounted. Bearings permanently lubricated. Double starting load capacity for extended filter life. Separate switches control motor blower, lights. Pilot light to show operation.
- FILTERS:** Prefilters are disposable type, 35% effective on atmospheric dust (material). Final HEPA (High Efficiency Particulate Air) filter rated at 99.97% effective on all particles 0.3 micron and larger. HEPA filter life expectancy, 8000-12000 hours under normal conditions.
- SIDE PANELS:** Usually clear Plexiglas or solid sides — customer choice
- LIGHT FIXTURE:** Cool white fluorescent lights afford a minimum of 100 foot candles at work height. Easy to change and maintain.
- WORK TABLE:** Square tubular steel frame. 36" work height. (Note: 30" work height available for sit down operation, no extra charge.) Tell us if operation is stand up or sit down.

- STORAGE CABINET:** Supplied as an optional extra. Can be included at time of purchase or anytime. 4' wide unit has 2 sliding panels. 6' wide unit has 3 sliding panels. 8' wide unit has 4 sliding panels.
- NOISE LEVEL:** About 65 DBA on A scale at operator's work level.
- VIBRATION LEVEL:** Average, 20 microinches RMS amplitude on work surface.
- EXHAUST DUCT:** Requires exhaust system by others Special corrosion resistant duct linings available as an optional extra.
- PARTICLE COUNT:** To be less than 100 particles per cubic foot 0.5 micron in size or larger. (Class 10 optional)
- AIR DELIVERY:** Clean airflow from HEPA filters is 90 FPM ± 20 FPM. (Per Federal Standard 209D)
- ELECTRICAL REQUIREMENTS:** 115-230 volt — single phase — 60 cycle. (208/240/460 3 phase optional)

SPECIFICATIONS



Continued from previous page

INSTALLATION: Installation is quite simple, as the work stations are shipped with leg section attached. Dimension of equipment allows it to pass through most door openings. If necessary, the leg section could be removed. On the Fume Hood models, the exhaust duct section may be removed and reinstalled when unit is in place.

MAINTENANCE: Simple disposable prefilters easily exchanged either every 400 hours or as the situation warrants. Final HEPA filters should last 8000 to 12000 hours under normal conditions.

FEATURES: Heavy duty square tubular steel frame with Epoxy finish. THE CAT series fits into a 8' high ceiling room. (Note: Pre-filter system could be located at the optional position in the front.) Transportable: each unit is independent and can be moved from place to place at any time. **VIBRATION FREE:** no direct transmittal of vibration since all mechanical equipment is mounted on separate legs from the work surface. We save floor space since blowers and filters are located overhead. Ease of maintenance: Disposable prefilters and HEPA filters easy to get to.

OPTIONS:

- Red or amber Plexiglas (Clear is standard)
- Gold or red lamps (Cool white is standard)
- Work surface of stainless steel or polypropylene (Formica is standard for solid top work deck.)
- Sinks, stainless steel or plastic all with required plumbing connections and fillings available.
- Electrical outlets, plugmold or convenience outlets installed.
- Magnehelic static pressure gauge, to indicate filter change.
- Ultra violet lights
- Remote plumbing controls
- Cold rolled steel & s/s const. Work height 36' will be furnished unless otherwise specified. Color — standard white formica. White epoxy on all steel with walnut formica trim. Control panel contrasting color.

HOW TO ORDER

Model number and style can be selected from the table of sizes.

Voltage — specify 115 volt or 230 volt, single phase, 60 cycle or other. Specify work surface height if other than 36" from floor. Specify number and location of convenience outlets to be installed. Specify plumbing and controls, special work surface cut outs for ultrasonic cleaners, spinners, etc.

If our standard colors do not match yours, please tell us what colors you prefer and we'll quote you a price.

Make sure you specify work height dimension if it is other than 36' high.

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In line with our policy of continual product improvement, HALCO reserves the right to incorporate and use equipment and material to conform with the latest design of its products, and in keeping with the specifications of this equipment.